NC/QC/YPD/2020-21/CW-C1 **Date: 12-06-2020**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Construction of compound wall to ward 7 office in Sahakaranagara in ward No.07.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Projects Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Ramesh. U, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**164 min**	Shall not be less than 30 min
2	Final setting time	**280 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.84 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.96 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.76 N/Sq mm**	Shall not be less than 27 N/Sqmm

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/YPD/2020-21/CW-FA1

Date: 12-06-2020

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.
{Project*: Construction of compound wall to ward 7 office in Sahakaranagara in ward No.07.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Projects Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Ramesh. U, Bangalore.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**96.35**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**82.50**	60-95	75-100	85-100	
01.18	**74.15**	30-70	55-90	75-100	
600. mic	**45.70**	15.34	35-59	60-79	
300.mic	**24.10**	5-20	8-30	12-40	
150.mic	**8.35**	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	**Requirements** as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**17.67%**	-----
2	Silt Content	----	**0.58%**	Not more than 8%
3	Specific Gravity	----	**2.61**	-------

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Yelahanka Zone
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JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/YPD/2020-21/CW-CA1 **Date: 12-06-2020**

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.
{Project*: Construction of compound wall to ward 7 office in Sahakaranagara in ward No.07.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Projects Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Ramesh. U, Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	97.30	85-100	90 - 100
10 mm	44.80	0 - 20	25 - 55
4.75 mm	3.65	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	26.65%	Not to exceed 25 %
2.	Crushing value	28.96%	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/YPD/2020-21/CW-C2 **Date: 18-06-2020**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Construction of compound wall to ward 7 office in Sahakaranagara in ward No.07.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Projects Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Ramesh. U, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**158min**	Shall not be less than 30 min
2	Final setting time	**265min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.14%**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.03mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.68 N/Sq mm**	Shall not be less than 27 N/Sqmm

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Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/YPD/2020-21/CW-PCC1 **Date: 18-06-2020**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Construction of compound wall to ward 7 office in Sahakaranagara in ward No.07.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Projects Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Ramesh. U, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	66.50	0 -20	30- 70
10mm	32.70	0 -5	10- 35
4.75mm	4.15	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	95.80	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	83.40	60-95	75-100	85-100	
01.18	71.15	30-70	55-90	75-100	
600.mic	47.80	15-34	35-59	60-79	
300.mic	23.10	5-20	8-30	12-40	
150.mic	7.95	0-10	0-10	0-10	

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JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/YPD/2020-21/CW-SSM1 **Date: 22-06-2020**

1.TESTING OF STONE SAMPLE :

Sub: Testing of Size stone.

{Project*: Construction of compound wall to ward 7 office in Sahakaranagara in ward No.07.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Projects Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Ramesh. U, Bangalore.

Technical Reference: IS 1121(Part 1) -1974 (R.A on 1998)

Table 1.1 :

SL No	Details of Tests	Observed Value	Normal Values
01	Compressive Strength	**1380.00** Kg/ Sqcm	Not less than 1000.00 Kg/Sqcm
02	Water absorption,%	**0.41 %**	Not more than 2.0 %

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Project Division
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BBMP, Bangalore - 92

NC/QC/YPD/2020-21/CW-SB1 Date: 03-07-2020

1. TEST REPORT ON PRE –CAST SOLID BLOCKS:

Sub: Testing of Pre-Cast Solid Block- Compressive strength.

{Project*: Construction of compound wall to ward 7 office in Sahakaranagara in ward No.07.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Projects Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Ramesh. U, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON PRE CAST(Solid Blocks)

BLOCK SPECIMENS

TABLE 1. 1:

Sl No.	Dimensions of Specimen **mm**	Details	Cross Sectional Area **mm^2**	Maximum Load in **KN**	Compressive Strength **N/mm^2**	**Average Compressive Strength N/mm^2**
1	400 X 100 X 200	**Solid**	40000	165	4.12	
2	,,	,,	40000	175	4.37	**4.12**
3	,,	,,	40000	155	3.87	

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Asst. Executive Engineer
Yelahanka Division
BBMP, Bangalore - 92